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Cardiac Surgery and the Brain, edited by Smith and Taylor (Smith) 1994;36:119
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HIV, AIDS, and the Brain. Research Publications: Association for Research in Nervous and Mental Disease, Vol 72, edited by Price and Perry (McGuire) 1994;36:120
Infectious Diseases of the Central Nervous System: Contemporary Neurology Series, Vol 41, edited by Tyler and Martin (Schmidley) 1994;36:456
Myology: Basic and Clinical, Second Edition, Vols 1 and 2, edited by Engel and Franzini-Armstrong (Fishman) 1994;36:808
The Neurology of Thinking, by Benson (Small) 1994;36: 808
Origins of Neuroscience: A History of Explorations into Brain Functions, by Finger (Fishman) 1994;36:807
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effect of felbamate and valproic acid on carbamazepine and its major metabolites in epileptic children (Liu and Delgado) 1994;36:538A
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